

DH-IPC-HFW1431TC1

4MP Entry IR Fixed-focal Bullet Network Camera



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Smart Illumination

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

- * The parameters and datasheets below can only be applied to 1431-S6 series.
- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 4 MP (2560 x1440)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Supports human detection.











Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Smart Codec

Smart H.265+; Smart H.264+

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Technical Specification						Video Frame Rate	Main stream: 2560 x 1440@(1-25/30 fps) sub stream: 704 x 576@(1-25 fps)/704 x 480@(1-30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Camera								
Image Sensor		1/2.9" CMOS						
Max. Resoluti	on	2560 (H) x 1440 (V)					Stream Capability	2 streams
ROM		16 MB					Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
RAM		64 MB						1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning Syst		Progressive						240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumina	tion	0.03 lux@F2.0 (Color, 30 IRE) 0.003 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination D	Distance	Up to 30 m (98.43 ft)(IR)					BLC	Yes
Illuminator O		Auto;Manual					HLC	Yes
							WDR	120 dB
Illuminator Number		1 (IR LED) Pan: 0°–360°;					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjustment		Tilt: 0°–90°; Rotation: 0°–360°					Gain Control	Auto/Manual
Lens							Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm					Smart Illumination	Yes
Max. Apertur	e	F2.0					Image Rotation	0°/180°
Field of View		2.8 mm: H: 92°; V: 50°; D: 107°					Mirror	Yes
		3.6 mm: H: 78°; V: 43°; D: 92°					Privacy Masking	4 areas
Iris Control		Fixed				Alarm		
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft)				Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception; SMD (human)	
	Lens	Detect	Observe	Recognize	Identify			(numan)
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Network	
	3.6 mm	76.0 m	30.4 m	15.2 m	7.6 m		Network Port	RJ-45 (10/100 Base-T)
DORI Distance		(249.34 ft)	(99.74 ft)	(49.87 ft)	(24.93 ft)		SDK and API	Yes
Distance	(EN-62676-4) to distinguish	ORI (Detect, Observe, Recognize, Identify) is a standard system I-62676-4) for defining the ability of a person viewing the video distinguish persons or objects within a covered area. The					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
For intelligent		is table do not reflect intelligent function distances. function distances, refer to installation and					Interoperability	ONVIF (Profile S & Profile T); CGI
		g manual/project design tool.					User/Host	6 (Total bandwidth: 24 M)
Intelligence					Storage	FTP		
Human Detection		Support the classification and accurate detection of human					Browser	IE; Chrome; Firefox
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
							Mobile Client	iOS;Android
Video		H.265; H.264; H.264H; H.264B; MJPEG (Only supported				Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509	
Video Compression		by the sub stream)						certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade

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Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	2014/30/10

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.5 W (12 VDC), 1.9 W (PoE); Max: 3.5 W (12 VDC), 4.3 W (PoE) (H.265 + intelligence on + WDR+ IR intensity)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95%(RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95%(RH), non-condensing	
Protection	IP67	

Structure

Casing Material	Metal + Plastic		
Product Dimensions	180.4 mm × 70 mm × 70 mm (7.10" × 2.76" × 2.76") (L × W × H)		
Net Weight	0.29 kg (0.63 lb)		
Gross Weight	0.40 kg (0.88 lb)		

Ordering Information

Туре	Model	Description
IP CAMERA	DH-IPC-HFW1431TC1	4MP Entry IR Fixed-focal Bullet Network Camera
	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFA151	Corner mount bracket
	DH-PFA152-E	Pole Mount Bracket
Accessories (Optional)	DH-PFA134	Junction box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:







DH-PFA130-E Water-proof Junction Box

DH-PFA151 Corner mount bracket

DH-PFA152-E Pole Mount Bracket







DH-PFA134 Junction box

DH-PFM321-EN DC12V1A power adapter

DH-PFM321D-EN DC12V 1A power adapter





DH-PFM320D-EN DC12V2A power adapter

PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

mm [inch]

